

t122\_gfacirc1  
(TMQnhox41FvMfxdY4pft2Ths4LQnajMvSYd)

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Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k10\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k14\_twoscomp : \iota$  be given. Let  $k2\_msafree2 : \iota \Rightarrow \iota$  be given. Let  $k46\_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k10\_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_facirc\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (X2 \neq k4\_tarski (k10\_finseq\_1 \\ & \quad X0 X1) k14\_twoscomp) \Rightarrow ((X0 \in k2\_msafree2 (k10\_gfacirc1 X0 X1 X2)) \wedge \\ & ((X1 \in k2\_msafree2 (k10\_gfacirc1 X0 X1 X2)) \wedge (X2 \in k2\_msafree2 (k10\_gfacirc1 \\ & \quad X0 X1 X2)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. k46\_gfacirc1 X0 X1 X2 = k8\_facirc\_1 X0 X1 X2 k14\_twoscomp \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. k10\_gfacirc1 X0 X1 X2 = k8\_facirc\_1 X0 X1 X2 k14\_twoscomp \tag{3}$$

**Theorem 1**

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (X2 \neq k4\_tarski (k10\_finseq\_1 \\ & \quad X0 X1) k14\_twoscomp) \Rightarrow ((X0 \in k2\_msafree2 (k46\_gfacirc1 X0 X1 X2)) \wedge \\ & ((X1 \in k2\_msafree2 (k46\_gfacirc1 X0 X1 X2)) \wedge (X2 \in k2\_msafree2 (k46\_gfacirc1 \\ & \quad X0 X1 X2)))) \end{aligned}$$